

August 27, 2018

-															
	IRON ORE PORT STOCK INDEX (IOPI)														
August 27	2018		FOT C	Qingdao	(inc. 16% VAT),	, RMB/wet to	onne			CFR Qingd	ao Equivalen	t (exc. 16%	VAT), USD/d	lry tonne	1 ¹
Index	Fe Content	Price	Change	Change	e % MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	499	-4	-0.8%	6 506	482	443	559	64.42	-0.36	-0.6%	65.45	65.41	61.36	77.89
IOPI58	58% Fe Fines	376	0	0.0%	359	336	304	376	47.60	0.14	0.3%	45.22	44.24	40.67	50.97
IOPI65	65% Fe Fines	683	-4	-0.6%	696	614	541	710	89.59	-0.28	-0.3%	91.44	84.24	75.83	97.10
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX														
Week End	ing August 24, 2	2018				RMB/ton	ne (exdu	ding tax)			ι	JSD/tonne	(excluding ta	x) ³	
Province	Region	Product		Basis	This week	Change 9	%	Low ²	High ²	This	week	Change %	Low ²	2	High ²
Hebei	Hanxing	66% Fe Co	oncentrate	Dry	646	-1.2%		579	682	9	4.33	-0.8%	84.54	Ļ	99.58
Hebei	Qian'an	65% Fe Co	oncentrate	Dry	765	8.5%		630	765	11	.1.70	9.0%	91.99)	111.70
Liaoning	Anshan	65% Fe Co	oncentrate	Wet	495	2.1%		445	550	7	2.28	2.5%	64.98	3	80.31
Shandong	Zibo	65% Fe Co	oncentrate	Dry	725	0.0%		620	725	10	5.86	0.5%	90.53	3	105.86
Week End	ing August 24, 2	2018			This week	his week Change % Low ⁴ High ⁴ ¹ Exchange rate applied: R				ge rate applied: RM	ed: RMB/USD = 6.8508 ² Since March 1				
China Mine	es Concentrate	Composite I	ndex RMB/	wт	607.33	3.0%		534.50	628.33	³ Weekly exchange rate applied: RMB/USD 6.8485 ⁴ Last 12 months					

MARKET COMMENTARY

According to SMM, some 68 vessels with 10.34 million mt of iron ore are expected to arrive at major Chinese ports during August 24-30, up 290,000 mt from 10.05 million mt during August 17-23. This marked the third consecutive week of increase, but at a slower rate compared with the previous gain of 880,000 mt. From August 24-30, volumes of iron ore departing Australian ports are likely to increase 530,000 mt to 15.87 million mt while those leaving Brazilian ports are likely to grow by 330,000 mt to 8.43 million mt. Rising deliveries are expected to weigh on iron ore prices in the near term. Iron ore ports stock were down today, following the lower DCE iron ore futures market. Trading activity was limited as mills tried to lower offers but traders did not give in.

August 27 2018

50%

40%

30%

20%

10%

0%

d to Benchmarks

Fe Content

58% Fe Fines

65% Fe Fines

PLATFORM TRADES AND TENDERS

61% Fe Fines trades at US\$63.83 for 170,000t 6-15 Sep LAYCAN 61% Fe Fines trades at US\$63.98 for 170,000t 17-26 Sep LAYCAN COREX trades BRBF at US\$71.20 for 170,000t for 29 Sep-10 Oct Delivery

IOPI62

11901

479.0

99.61

76.78

477.0

490.0

IRON ORE FUTU

DCE

Change

-12.0

37.1

4.5

-10.5

-3.0

EREIGHT RATES

27 Aug 3pm clo

IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



									ead	10%																		
					_				% Spread	10%																		
~~~~	$\sim$		~						× -2	20%																		
									-3	30%	~					-			_	~	~			V		~	~	
		-	-	-	-	-				10%		•																
11-Jun-18 18-Jun-18 25-Jun-18	9-Jul-18 16-Jul-18	23-Jul-18	30-Jul-18	6-Aug-18	13-Aug-18	20-Aug-18	27-Aug-18		-4		2-Apr-18	9-Apr-18	16-Apr-18	23-Apr-18	30-Apr-18	7-May-18	14-May-18	21-May-18	28-May-18	4-Jun-18	11-Jun-18	18-Jun-18	25-Jun-18	2-Jul-18	9-Jul-18	16-Jul-18	23-Jul-18	30-Jul-18
- IOPI58 -	IOPI6	5										-		IOPI	65 %	Spr	ead	to IC	PI62	2	-	_	IOPI	58 %	Spr	ead 1	o IO	PI62
JRES CONTR	RACTS														I	RO	N C	DRE	РО	RT	IN\	/EN	то	RIE	5			
			SG	iX				H						14/	ook	Enc	lina	Aug	unct.	24	201	0 /	منالنه	<b></b> +		201		
ose		27	7 Aug	; 6pn	n			1					-				-	Aug	usi					л	JIIII			1
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Change %	Sep'18		Char	nge		Chan	ge %		Jingtang						15	.75					-2.1	7%				1	.4.1	1
-2.44%	65.71		-0.5	54		-0.8	2%		Oingdao						19	90					-0 5	3%				1	56	0

		Week Ending Aug	gust 24, 2018 (million t	onnes)							
-	Province	This week	Change %	Low ⁴	High ⁴						
Jin	gtang	15.75	-2.17%	14.11	157.50						
Qii	ngdao	18.90	-0.53%	15.60	19.97						
Ca	ofeidian	18.00	0.00%	16.62	25.30						
Tia	anjin	10.40	6.12%	8.60	11.00						
Riz	zhao	16.70	-2.05%	13.10	19.00						
To	tal (35 Ports)	137.48	-0.97%	123.49	150.04						
	BLOOMBERG										
		BLC	OOMBERG TICKERS								

FOT Qingdao (RMB/wet tonne)

IRCNQ001

IRCNQ002

IRCNQ003

**IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT** 

IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

Spread to IOPI62

-123

184

PORT STOCK INDEX (RMB/WT)

30-Jul-18 6-Aug-18 27-Aug-18

13-Aug-2 20-Aug-C

% Spread to IOPI62

-24.65%

36.87%

				23					
August 24, 2018	August 24, 2018 FREIGHT RATES - DRY BULK US\$/wet tonne								
Route	Designation		Change	Change %	Low ⁴	High ⁴	IOP162		
W. Australia - Qingdao	C5	9.34	-0.09	-0.91%	5.109	10.002	IOP162		
Tubarao - Qingdao	C3	22.89	-0.21	-0.89%	12.705	24.76	IOPI65		

59.30%

6.18%

-2.15%

-0.61%

12.76

101.04

65.59

66.75

2.31

-2.89

-0.64

0.06

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**Closing Date** 

Closing Price

Vol traded ('000 lots)

Open positions ('000 lots)

Contract

Day Low

Day High

22.14%

-2.78%

-0.97%

0.09%

# August 27, 2018

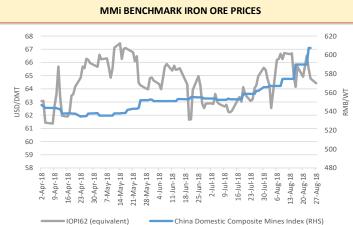
CFR Qingdao Equivalent (USD/dry tonne)

IRCNQ004

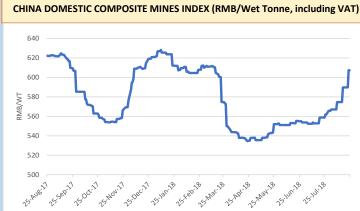
IRCNQ005

IRCNQ006





**IRON ORE BRAND SPOT PRICE ASSESMENTS** 



### AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

Alumina

Fe

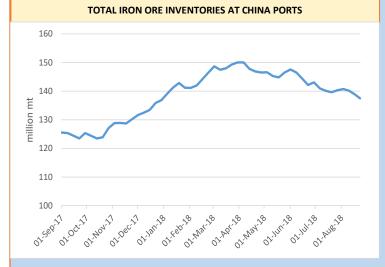
SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS

Silica

Phos

Moisture

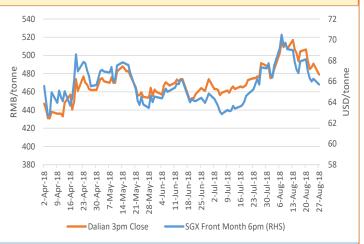
August 27 2018	PORT	STOCK INDEX (R	MB/WT)	August 27 2018
	Price	Change	Diff to IOPI62	
Newman Fines	476	-4	-23	Roy Hill
SIMEC Fines	431	-4	-68	SIMEC Fines
PB Fines	485	-4	-14	PB Fines
Newman Fines	502	-4	3	Newman Fines
MAC Fines	476	-4	-23	MAC Fines
Jimblebar Blended Fines	445	-4	-54	Jimblebar Blende
Carajas Fines	739	-4	240	Carajas Fines
Brazilian SSF	510	-4	11	Brazilian SSF
Brazilian Blend Fines	528	-4	29	Brazilian Blend F
RTX Fines	456	-4	-43	RTX Fines
August 27 2018	PORT	August 27 2018		
	Price	Change	Diff to IOPI58	
SSF	294	-8	-82	SSF
FMG Blended Fines	366	-1	-10	FMG Blended F
Robe River	333	-8	-43	Robe River
Western Fines	301	-4	-75	Western Fines
Atlas Fines	290	-6	-86	Atlas Fines
Yandi	364	2	-12	Yandi
	304			Tanui



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#### y Hill 61.00% 2.20% 4.50% 0.055% 8.00% MEC Fines 60.00% 2.30% 6.30% 0.060% 6.00% 2.38% 3.62% 0.100% 8.92% Fines 61.63% wman Fines 62.43% 2.38% 4.19% 0.080% 7.51% AC Fines 61.28% 2.25% 4.67% 0.090% 7.81% nblebar Blended Fines 61.30% 2.83% 4.61% 0.100% 6.92% rajas Fines 65.61% 0.99% 1.87% 0.060% 8.50% azilian SSF 62.00% 1.00% 6.50% 0.040% 6.00% azilian Blend Fines 4.82% 0.070% 62.94% 1.38% 8.55% X Fines 3.10% 4.50% 0.135% 61.00% 7.50% gust 27 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS Fe Alumina Silica Phos Moisture 56.50% 3.06% 6.25% 0.050% 9.19% SF 58.39% 2.71% 5.83% 0.070% 7.16% VG Blended Fines 56.74% 3.14% 5.05% 0.030% 8.75% obe River 57.70% 2.81% 7.38% 0.060% 7.42% estern Fines tlas Fines 56.59% 2.55% 7.14% 0.080% 8.46% ndi 57.19% 1.40% 6.39% 0.040% 8.85%

FUTURE TRADING—FRONT MONTH CLOSING PRICE



### Domestic Composite Min

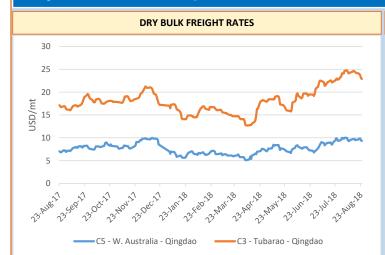
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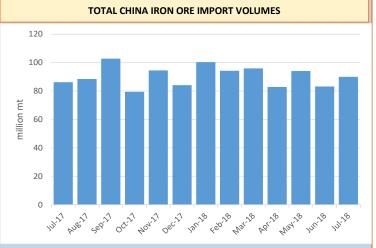
# August 27, 2018

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### Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	24/8/2018	Change	Change %
ReBar HRB400	4,546.0	55	1.22%
Wirerod Q300 ¢6.5mm	4,785.0	46	0.97%
HRC Q235/SS400 5.5mm*1500*C	4,404.0	62	1.43%
CRC SPCC/ST12 1.0mm*1250*2500	4,916.0	90	1.86%
Medium & Heavy Plate Q235B 20mm	4,523.0	63	1.41%
GI ST02Z 1.0mm*1000*C	5,400.0	30	0.56%
Billet Q235 150*150mm	4,050.0	10	0.25%

Rebar and HRC spot prices

urce: SMM

### CHINESE STEEL INVENTORIES

China Export Prices USE	D/tonne			
Product	Specification	Export tax (+)/Vate rebate (-)		Change
			24/8/2018	
Rebar	BS4449 460B 12-25mm, + chrome	-13%	565	5
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	5
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	575	-5
Cold-rolled coil	SPCC 1.0mm	-13%	615	-5
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0
Galvanised	ST02Z/SGCC 1.0mm	-13%	685	-5

CHINESE STEEL EXPORT PRICES

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market =  $FOB^*$  exchange rate*116/(16-0.3); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market =  $FOB^*$  exchange rate*116/(16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in thina's spot market =  $FOB^*$  exchange rate*16/(16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market =  $FOB^*$  exchange rate*

-	Steel In	ventories ^a (unit:	1000 tonnes	S)	
9	Product	24/8/2018	17/8/2018	Change	Change %
-	Rebar	4,462	4,517	-55	-1.22%
	Wirerod	1,309	1,271	38	2.99%
	Hot-rolled Coil	2,221	2,238	-17	-0.76%
	Medium & Thick Plate	964	972	-8	-0.82%
_	Cold-rolled Coil	1,171	1,179	-8	-0.68%
	Total	10,127	10,176	-49	-0.48%

³ SMM statistics cover inventories of major steel products in China's major markets: hotrolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; coldrolled steel and medium-thick plate inventories in 31 major cities.

### CHINESE STEEL MILL PROFITABILITY

SMM Tracking	SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note								
MMi (Fe 62%), USD/mt exluding tax	64.78	-0.91	MMi index for 22nd June								
Coke	2,390	120	2nd grade met coke, Tangshan, incl. tax								
Steel Scrap	2,380	100	steel scrap (6mm) in Zhangjiagang, exl. tax								
Billet Cost	3,000	64	Q234, incl. tax								
Rebar cost - Blast furnace	3,274	67	calculated based on theoretical weight, incl. tax								
Rebar profit - Blast furnace	1,086	-17	based on Shanghai prices, incl. tax								
Hot-rolled coil cost - Blast furnace	3,328	65	based on actual w eight, incl. tax								
Hot-rolled coil proft - Blast furnace	1,082	5	based on Shanghai prices, incl. tax								
Note: 1. Costs in the table are caluclated based	on todays marke	t prices and facout o	our management, sales, financial and depreciations fees.								

2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

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	I	RON ORE INDEX SPEC	IFICATIONS, COMPI	LATION RATIONALE AND DATA EXCLUSIONS
	Iron Ore Index Sp	ecifications (Port)		Iron Ore Index Compilation Rationale and Data Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	
Fe %	65.00	62.00	58.00	MMi iron ore port stock indices are compiled from data provided by companies that are part
Alumina %	1.40	2.25	2.25	of the iron ore supply chain and involved in spot market transactions. The indices are calculat- ed using detailed transaction-level data submitted to MMi by these companies. This data is
Silica%	1.50	4.00	5.50	normalised to the appropriate specifications and screened to remove outliers before volume-
Phosphorus %	0.06	0.09	0.05	weighted average prices are calculated from the remaining core set of data.
Sulphur %	0.01	0.02	0.02	For more details on MMi's iron ore methodology please download the guide published on our
Moisture %	8.00	8.00	9.00	website at:
Sizing		low 10mm for at lea m of 40% below 150	0,	Data Exclusions* Port Index: 0
Pricing Point		Qingdao Port		* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	within 8 weeks	
Payment Terms		L/C at sight		

### IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

	IRON ORE PORT INDEX NORMALISATION DIFFERENTIALS										
	Product Differentials (RMB/we	et tonne)		Differentials to Qingdao Port (RMB/wet tonne)							
	Applicable range	Value	Change	Port	Value	Change					
	High Grade Fe 60 - 63%	15.00	0.00	Bayuquan	-35.00	0.00					
	High Grade Fe 63 - 64%	64.00	0.00	Beilun	5.00	0.00					
1% Fe	High Grade Fe 64 - 65%	71.00	0.00	Caofeidian	-25.00	-5.00					
	High Grade Fe 65 - 65.5%	71.00	0.00	Dalian	-20.00	0.00					
	Low Grade Fe	21.00	3.00	Fangcheng	-5.00	0.00					
	High Fe Grade Al <2.25%	40.00	0.00	Jiangyin	-30.00	0.00					
1% Alumina	High Fe Grade Al 2.25-4%	19.00	0.00	Jingtang	-25.00	-5.00					
	Low Fe Grade	35.00	5.00	Lanshan	0.00	0.00					
	High Fe Grade Si <4%	0.00	0.00	Lanqiao	0.00	0.00					
1% Silica	High Fe Grade Si <4 - 6.5%	20.00	0.00	Lianyungang	0.00	0.00					
1% 5111Ca	High Fe Grade Si <6.5 - 9%	20.00	0.00	Majishan	0.00	0.00					
	Low Fe Grade	29.00	0.00	Nantong	-30.00	0.00					
0.01%	High Fe Grade 0.08% <p<0.115%< td=""><td>1.00</td><td>0.00</td><td>Qingdao</td><td>0.00</td><td>0.00</td></p<0.115%<>	1.00	0.00	Qingdao	0.00	0.00					
	High Fe grade 0.115% <p<0.15%< td=""><td>2.00</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	2.00	0.00	Rizhao	0.00	0.00					
Phosphorus	Low Fe Grade0.08 < P < 0.15%	2.00	0.00	Tianjin	-25.00	0.00					

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